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SECTION 1  
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PRODUCT IDENTIFIER                    HD 5511            ICI COLORANT-HD PHTHALO GREEN (D)  
DATE OF PREPARATION                JUNE 28, 2002  
PRODUCT USE                         PROTECTIVE COATING

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MSDS PREPARED BY:    PRODUCT SAFETY AND TOXICOLOGY DEPARTMENT  
                                 ICI PAINTS NORTH AMERICA

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SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS  
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	INGREDIENT	WT. %:
CHEMICAL NAME	1,2-ETHANEDIOL	20-30
COMMON NAME :	ETHYLENE GLYCOL	
CAS NUMBER:	107-21-1	
CHEMICAL NAME	POLY(OXY-1,2-ETHANEDIYL, ALPHA-4-NONYLPHENYL) -	5-10
	OMEGA-HYDROXY-, BRANCHED	
COMMON NAME :	GLYCOL ETHER	
CAS NUMBER:	127087-87-0	
CHEMICAL NAME	C.I. PIGMENT GREEN 7	5-10
COMMON NAME :	PHTHALO GREEN PIGMENT	
CAS NUMBER:	1328-53-6	
CHEMICAL NAME	KAOLIN	20-30
COMMON NAME :	CLAY	
CAS NUMBER:	1332-58-7	
CHEMICAL NAME	TALC	5-10
COMMON NAME :	TALC	
CAS NUMBER:	14807-96-6	
CHEMICAL NAME	1,2,3-PROPANETRIOL	1-5

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SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS  
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COMMON NAME : GLYCERINE  
CAS NUMBER: 56-81-5

CHEMICAL NAME WATER 10-20  
COMMON NAME : WATER  
CAS NUMBER: 7732-18-5

CHEMICAL NAME LECITHINS 1-5  
COMMON NAME : LECITHIN  
CAS NUMBER: 8002-43-5

CHEMICAL NAME 2-PYRROLIDINONE, 1-METHYL- 1-5  
COMMON NAME : N-METHYLPYRROLIDONE  
CAS NUMBER: 872-50-4

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SECTION 3: HAZARDS IDENTIFICATION  
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PRIMARY ROUTE(S) OF EXPOSURE  
INHALATION, SKIN CONTACT, EYE CONTACT, INGESTION.

EFFECTS OF OVEREXPOSURE

INHALATION PROLONGED INHALATION MAY LEAD TO MUCOUS MEMBRANE IRRITATION, DROWSINESS, DIZZINESS AND/OR LIGHTHEADEDNESS, HEADACHE, NAUSEA, CENTRAL NERVOUS SYSTEM DEPRESSION, CONFUSION, DIFFICULTY OF BREATHING, BLOOD ABNORMALITIES, KIDNEY DAMAGE, LOSS OF CONSCIOUSNESS.

SKIN CONTACT IRRITATION OF SKIN. PROLONGED OR REPEATED CONTACT CAN CAUSE DERMATITIS, DEFATTING. POSSIBLE SENSITIZATION TO SKIN.

EYE CONTACT IRRITATION OF EYES. PROLONGED OR REPEATED CONTACT CAN CAUSE CONJUNCTIVITIS, TEARING OF EYES, REDNESS OF EYES.

INGESTION INGESTION MAY CAUSE DIZZINESS AND/OR LIGHTHEADEDNESS, HEADACHE, NAUSEA, VOMITING, DIARRHEA, GASTRO-INTESTINAL DISTURBANCES, SEVERE ABDOMINAL PAIN, APATHY, CENTRAL NERVOUS SYSTEM DEPRESSION, RESPIRATORY PROBLEMS, INTOXICATION, BLOOD ABNORMALITIES, KIDNEY DAMAGE, PULMONARY EDEMA, LOSS OF CONSCIOUSNESS, ACUTE POISONING, RESPIRATORY FAILURE, CARDIAC FAILURE, BRAIN DAMAGE.

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SECTION 3: HAZARDS IDENTIFICATION  
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MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE  
EYE, SKIN, RESPIRATORY DISORDERS  
LUNG DISORDERS  
KIDNEY DISORDERS

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SECTION 4: FIRST-AID MEASURES  
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INHALATION REMOVE TO FRESH AIR. RESTORE AND SUPPORT CONTINUED BREATHING.  
GET EMERGENCY MEDICAL ATTENTION.  
HAVE TRAINED PERSON GIVE OXYGEN IF NECESSARY. GET MEDICAL HELP FOR ANY BREATHING DIFFICULTY.

SKIN CONTACT WASH THOROUGHLY WITH SOAP AND WATER. IF ANY PRODUCT REMAINS, GENTLY RUB PETROLEUM JELLY, VEGETABLE OR MINERAL/BABY OIL ONTO SKIN. REPEATED APPLICATIONS MAY BE NEEDED. REMOVE CONTAMINATED CLOTHING.  
WASH CONTAMINATED CLOTHING BEFORE RE-USE.

EYE CONTACT FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER, ESPECIALLY UNDER LIDS FOR AT LEAST 15 MINUTES. IF IRRITATION OR OTHER EFFECTS PERSIST, OBTAIN MEDICAL TREATMENT.

INGESTION IF SWALLOWED, OBTAIN MEDICAL TREATMENT IMMEDIATELY.

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SECTION 5: FIRE-FIGHTING MEASURES  
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FLASH POINT (SETA)	NONE	LOWER EXPLOSIVE LIMIT	NOT AVAILABLE
		UPPER EXPLOSIVE LIMIT	15.3 (%)

FIRE EXTINGUISHING MEDIA  
DRY CHEMICAL OR FOAM  
WATER FOG.  
CARBON DIOXIDE.

UNUSUAL FIRE AND EXPLOSION HAZARDS  
VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL LONG DISTANCES TO A SOURCE OF IGNITION AND FLASH BACK.  
CLOSED CONTAINERS MAY BURST IF EXPOSED TO EXTREME HEAT OR FIRE.

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**SECTION 5: FIRE-FIGHTING MEASURES**

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**FIRE FIGHTING PROCEDURES**

WATER MAY BE USED TO COOL AND PROTECT EXPOSED CONTAINERS. FIREFIGHTERS SHOULD USE FULL PROTECTIVE CLOTHING, EYE PROTECTION, AND SELF-CONTAINED BREATHING APPARATUS.

**HAZARDOUS DECOMPOSITION OR COMBUSTION PRODUCTS**

CARBON MONOXIDE, CARBON DIOXIDE, OXIDES OF NITROGEN, PHOSPHOROUS.  
CYANIDES.

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**SECTION 6 ACCIDENTAL RELEASE MEASURES**

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**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

COMPLY WITH ALL APPLICABLE HEALTH AND ENVIRONMENTAL REGULATIONS.

ELIMINATE ALL SOURCES OF IGNITION. VENTILATE AREA. SPILLS MAY BE COLLECTED WITH ABSORBENT MATERIALS. PLACE COLLECTED MATERIAL IN PROPER CONTAINER.

COMPLETE PERSONAL PROTECTIVE EQUIPMENT MUST BE USED DURING CLEANUP.

LARGE SPILLS - SHUT OFF LEAK IF SAFE TO DO SO. DIKE AND CONTAIN SPILL. PUMP TO STORAGE OR SALVAGE VESSELS. USE ABSORBENT TO PICK UP EXCESS RESIDUE. KEEP SALVAGEABLE MATERIAL AND RINSE WATER OUT OF SEWERS AND WATER COURSES. SMALL SPILLS - USE ABSORBENT TO PICK UP RESIDUE AND DISPOSE OF PROPERLY.

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**SECTION 7 HANDLING AND STORAGE**

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**HANDLING AND STORAGE**

STORE BELOW 100F (38C). KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME. KEEP FROM FREEZING.

**OTHER PRECAUTIONS**

USE ONLY WITH ADEQUATE VENTILATION. DO NOT TAKE INTERNALLY. KEEP OUT OF REACH OF CHILDREN. AVOID CONTACT WITH SKIN AND EYES, AND BREATHING OF VAPORS. WASH HANDS THOROUGHLY AFTER HANDLING, ESPECIALLY BEFORE EATING OR SMOKING. KEEP CONTAINERS TIGHTLY CLOSED AND UPRIGHT WHEN NOT IN USE. EMPTY CONTAINERS MAY CONTAIN HAZARDOUS RESIDUES. GROUND EQUIPMENT WHEN TRANSFERRING TO PREVENT ACCUMULATION

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SECTION 7 HANDLING AND STORAGE  
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OF STATIC CHARGE.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION  
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COMMON NAME : ETHYLENE GLYCOL

CAS NUMBER: 107-21-1

ACGIH(STEL): C 100 MG/M3

COMMON NAME : CLAY

CAS NUMBER: 1332-58-7

ACGIH(TWA): 2 MG/M3 OSHA(TWA): 5 MG/M3

COMMON NAME : TALC

CAS NUMBER: 14807-96-6

ACGIH(TWA): 2 MG/M3

COMMON NAME : GLYCERINE

CAS NUMBER: 56-81-5

ACGIH(TWA): 10 MG/M3 OSHA(TWA): 5 MG/M3

RESPIRATORY PROTECTION

CONTROL ENVIRONMENTAL CONCENTRATIONS BELOW APPLICABLE EXPOSURE STANDARDS WHEN USING THIS MATERIAL. WHEN RESPIRATORY PROTECTION IS DETERMINED TO BE NECESSARY, USE A NIOSH/MSHA (CANADIAN Z94.4) APPROVED ELASTOMERIC SEALING-SURFACE FACEPIECE RESPIRATOR OUTFITTED WITH ORGANIC VAPOR CARTRIDGES AND PAINT SPRAY (DUST/MIST) PREFILTERS. DETERMINE THE PROPER LEVEL OF PROTECTION BY CONDUCTING APPROPRIATE AIR MONITORING. CONSULT 29CFR1910.134 FOR SELECTION OF RESPIRATORS (CANADIAN Z94.4).

VENTILATION PROVIDE DILUTION VENTILATION OR LOCAL EXHAUST TO PREVENT BUILD-UP OF VAPORS.

PERSONAL PROTECTIVE EQUIPMENT

EYE WASH, SAFETY SHOWER, SAFETY GLASSES OR GOGGLES. IMPERVIOUS GLOVES, IMPERVIOUS CLOTHING, BOOTS.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES  
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VAPOR PRESSURE:	NOT AVAILABLE	SPECIFIC GRAVITY:	1.428
BOILING RANGE:	212-500F/ -260C	WEIGHT PER GALLON:	11.90/ 14.29IMP
%VOLATILE BY VOLUME:	58.85		
PHYSICAL STATE:	LIQUID	APPEARANCE	GREEN
SOLUBILITY IN WATER:	NOT AVAILABLE	PH:	NOT AVAILABLE

  
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SECTION 10: STABILITY AND REACTIVITY  
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## UNDER NORMAL CONDITIONS

STABLE

SEE SECTION 5 FIRE FIGHTING MEASURES

## MATERIALS TO AVOID

OXIDIZERS, REDUCING AGENTS.  
ALKALIS  
MINERAL ACIDS.  
STYRENE MONOMER

## CONDITIONS TO AVOID

CONTACT WITH OXIDIZING AGENT, FREEZING, OPEN FLAME.

## HAZARDOUS POLYMERIZATION

WILL NOT OCCUR

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SECTION 11: TOXICOLOGICAL INFORMATION  
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COMMON NAME : ETHYLENE GLYCOL

CAS NUMBER: 107-21-1

CARCINOGENICITY LISTED BY:	NTP NO	IARC NO	OSHA NO	ACGIH NO
LD50:	4700.00 MG/KG	ORL RAT		
LD50:	5500.00 MG/KG	ORL MOU		

COMMON NAME : GLYCOL ETHER

CAS NUMBER: 127087-87-0

CARCINOGENICITY LISTED BY: NTP NO

IARC NO

OSHA NO

ACGIH NO

COMMON NAME : PHTHALO GREEN PIGMENT

CAS NUMBER: 1328-53-6

CARCINOGENICITY LISTED BY:	NTP NO	IARC NO	OSHA NO	ACGIH NO
LD50:	>5000.00 MG/KG	ORL RAT		

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SECTION 11: TOXICOLOGICAL INFORMATION  
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COMMON NAME : CLAY

CAS NUMBER: 1332-58-7

CARCINOGENICITY LISTED BY: NTP NO

IARC NO

OSHA NO

ACGIH NO

COMMON NAME : TALC

CAS NUMBER: 14807-96-6

CARCINOGENICITY LISTED BY: NTP NO

IARC NO

OSHA NO

ACGIH NO

COMMON NAME : GLYCERINE

CAS NUMBER: 56-81-5

CARCINOGENICITY LISTED BY: NTP NO

IARC NO

OSHA NO

ACGIH NO

LD50: 12.60 GM/KG ORL RAT

LD50:&gt; 10.00 MG/KG SKN RBT

LC50:&gt; 570.00 MG/M3/1HR IHL RAT

COMMON NAME : LECITHIN

CAS NUMBER: 8002-43-5

CARCINOGENICITY LISTED BY: NTP NO

IARC NO

OSHA NO

ACGIH NO

COMMON NAME : N-METHYLPYRROLIDONE

CAS NUMBER: 872-50-4

CARCINOGENICITY LISTED BY: NTP NO

IARC NO

OSHA NO

ACGIH NO

LD50: 3914.00 MG/KG ORL RAT

LD50: 8.00 GM/KG SKN RBT

## SUPPLEMENTAL HEALTH INFORMATION

CONTAINS A CHEMICAL THAT MAY BE ABSORBED THROUGH SKIN.

## CARCINOGENICITY

INHALATION OF NON-ASBESTIFORM COSMETIC GRADE TALC FOR 2 YEARS AT 6 AND 18 MG/M3 PRODUCED CLEAR EVIDENCE OF CARCINOGENICITY IN FEMALE RATS (LUNG AND ADRENAL TUMORS) AND SOME EVIDENCE OF CARCINOGENICITY IN MALE RATS (ADRENAL TUMORS). NO EVIDENCE OF CARCINOGENICITY WAS DEMONSTRATED IN MALE AND FEMALE MICE EXPOSED UNDER THE SAME CONDITIONS. MICROSCOPIC EXAMINATION OF THE LUNGS OF RATS AND MICE EXPOSED TO TALC REVEALED ADDITIONAL EXPOSURE RELATED EFFECTS PRIMARILY ASSOCIATED WITH THE INFLAMMATORY RESPONSE.

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SECTION 11: TOXICOLOGICAL INFORMATION  
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## REPRODUCTIVE EFFECTS

NO REPRODUCTIVE EFFECTS ARE ANTICIPATED

## MUTAGENICITY

NO MUTAGENIC EFFECTS ARE ANTICIPATED

## TERATOGENICITY

SOME LABORATORY TEST RESULTS HAVE SHOWN ETHYLENE GLYCOL TO  
BE AN ANIMAL TERATOGEN.-----  
SECTION 12: ECOLOGICAL INFORMATION  
-----NO ECOLOGICAL TESTING HAS BEEN DONE BY ICI PAINTS ON THIS  
PRODUCT AS A WHOLE.-----  
SECTION 13: DISPOSAL CONSIDERATIONS  
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## WASTE DISPOSAL

DISPOSE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.  
AVOID DISCHARGE TO NATURAL WATERS.-----  
SECTION 14: TRANSPORT INFORMATION  
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DOT PAINT \*\* PROTECT FROM FREEZING \*\*

IMDG NOT AVAILABLE

IATA NOT AVAILABLE

TDG NOT AVAILABLE

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SECTION 15: REGULATORY INFORMATION  
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		SARA 302	SARA 313	CERCLA 302.4	HAZ AIR POLLUTANT	MARINE POLYNT
CAS NUMBER:	107-21-1	NO	YES	YES	YES	NO
COMMON NAME :	ETHYLENE GLYCOL					
CAS NUMBER:	127087-87-0	NO	YES	NO	YES	NO



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SECTION 15: REGULATORY INFORMATION  
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CAS NUMBER: 872-50-4 NO YES NO NO NO  
COMMON NAME : N-METHYLPYRROLIDONE

AS OF THE DATE OF THIS MSDS, ALL OF THE COMPONENTS IN THIS  
PRODUCT ARE LISTED (OR ARE OTHERWISE EXEMPT FROM LISTING)  
ON THE TSCA INVENTORY.  
THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE  
HAZARD CRITERIA OF THE CPR (CONTROLLED PRODUCTS REGULATIONS)  
AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE  
CPR.

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SECTION 16: OTHER INFORMATION  
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THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE  
AT THE TIME OF PREPARATION OF THIS DATA SHEET AND WHICH ICI  
PAINTS BELIEVES TO BE RELIABLE. HOWEVER, NO WARRANTY IS  
EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA.  
ICI PAINTS SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS  
INFORMATION, OR OF ANY PRODUCT, METHOD OR APPARATUS  
MENTIONED AND YOU MUST MAKE YOUR OWN DETERMINATION OF ITS  
SUITABILITY AND COMPLETENESS FOR YOUR OWN USE, FOR THE  
PROTECTION OF THE ENVIRONMENT, AND THE HEALTH AND SAFETY OF  
YOUR EMPLOYEES AND USERS OF THIS MATERIAL.  
COMPLIES WITH OSHA HAZARD COMMUNICATION STANDARD  
29CFR1910.1200.